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Date 5-4-04

Signature Marcia Mingo

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicant:	§	Confirmation No.: 8979
DON M HANNEGAN	§	
DARRYL A. BOURGOYNE	§	
Filed: March 23, 2004	§	Art Unit:
Serial No.: 10/807,091	§	Examiner:
For: METHOD AND SYSTEM FOR RETURN OF DRILLING FLUID FROM A SEALED MARINE RISER TO A FLOATING DRILLING RIG WHILE DRILLING	§	Docket No.: H055010.0050US0
	§	Customer No.: 01200

INFORMATION DISCLOSURE STATEMENT

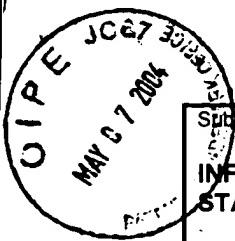
Applicant hereby submits the references identified in the attached PTO Form 1449 in accordance with 37 C.F.R. §§ 1.56 and 1.97 before the mailing of a first Office Action. Copies of references other than US patents and published applications cited in the attached PTO-1449 are enclosed.

Respectfully submitted,

Richard D. Fladung, Reg. No. 30,834
ATTORNEY OR AGENT OF RECORD

Date: May 4, 2004

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1 of 11

Complete if Known

Application Number	10/807,091
Filing Date	March 23, 2004
First Named Inventor	Don M. Hannegan
Group Art Unit	
Examiner Name	
Attorney Docket Number	H055010.0050US0

U.S. PATENT DOCUMENTS

Exr Initials	U.S. Patent Document		Name of Inventor or Applicant of Cited Document	Date of Publication of Cited Document MM-YYYY
	Number	Kind Code (if known)		
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	Number	Kind Code (if known)	Date of Publication of Cited Document MM-YYYY
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U.S. PATENT DOCUMENTS			
Exr Initials	U.S. Patent Document		Name of Inventor or Applicant of Cited Document
	Number	Kind Code (if known)	Date of Publication of Cited Document MM-YYYY
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Examiner Signature		Date Considered	
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U.S. PATENT DOCUMENTS				
Exr Initials	U.S. Patent Document		Name of Inventor or Applicant of Cited Document	Date of Publication of Cited Document MM-YYYY
	Number	Kind Code (if known)		
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U.S. PATENT RELATED APPLICATIONS				
Exr Initials	APPLICATION NO.	ATTY. DOCKET NO.	Status or Patentee	Date of Filing or Issue
	60/079,641	09432/160001	Abandoned, but Priority Claimed in above U.S. Patent Nos. 6,230,824B1 and 6,102,673 and PCT WO 99/50524	March 27, 1998

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Exr Initials		Include Name of first Author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), volume-issue number(s), page(s), date (in parentheses). If a book, also include publisher and city and/or country where published.	T ₁
	A	The Modular T BOP Stack System, Cameron Iron Works © 1985 (5 pages)	
	B	Cameron HC Collet Connector, ©1996 Cooper Cameron Corporation, Cameron Division (12 pages)	
	C	Riserless drilling: circumventing the size/cost cycle in deepwater - Conoco, Hydril project seek enabling technologies to drill in deepest water depths economically, May 1996 Offshore Drilling Technology (pages 49, 50, 52, 53, 54 and 55)	
	D	Williams Tool Company - Home Page - Under Construction Williams Rotating Control Heads (2 pages); Seal-Ability for the pressures of drilling (2 pages); Williams Model 7000 Series Rotating Control Heads (1 page); Williams Model 7000 & 7100 Series Rotating Control Heads (2 pages); Williams Model IP1000 Rotating Control Head (2 pages); Williams Conventional Models 8000 & 9000 (2 pages); Applications Where using a Williams rotating control head while drilling is a plus (1 page); Williams higher pressure rotating control head systems are IDEALLY SUITED FOR NEW TECHNOLOGY FLOW DRILLING AND CLOSED LOOP UNDERBALANCED DRILLING (UBD) VERTICAL AND HORIZONTAL (2 pages); and How to Contact Us (2 pages)	
	E	Offshore - World Trends and Technology for Offshore Oil and Gas Operations, March 1998, Seismic: Article entitled, "Shallow Flow Diverter JIP Spurred by Deepwater Washouts" (3 pages including cover page, table of contents and page 90)	
	F	Williams Tool Co., Inc. Rotating Control Heads and Strippers for Air, Gas, Mud, and Geothermal Drilling Worldwide - Sales Rental Service, ©1988 (19 pages)	
	G	Williams Tool Co., Inc. 19 page brochure ©1991 Williams Tool Co., Inc. (19 pages)	
	H	Fig. 14. Floating Piston Drilling Choke Design; May of 1997	
	I	Blowout Preventer Testing for Underbalanced Drilling by Charles R. "Rick" Stone and Larry A. Cress, Signa Engineering Corp., Houston, Texas, 24 pages, (Undated)	
	J	Williams Tool Co., Inc. Instructions, Assemble & Disassemble Model 9000 Bearing Assembly (cover page and 27 numbered pages)	
	K	Williams Tool Co., Inc. Rotating Control Heads Making Drilling Safer While Reducing Costs Since 1968, ©1989 (4 pages)	
	L	Williams Tool Company, Inc. International Model 7000 Rotating Control Head, © 1991 (4 pages).	
	M	Williams Rotating Control Heads, Reduce Costs Increase Safety Reduce Environmental Impact, 4 pages, (© 1995)	
	N	Williams Tool Co., Inc., Sales-Rental-Service, Williams Rotating Control Heads and Strippers for Air, Gas, Mud, and Geothermal Drilling, © 1982 (7 pages)	
	O	Williams Tool Co., Inc., Rotating Control Heads and Strippers for Air, Gas, Mud, Geothermal and Pressure Drilling, © 1991 (19 pages)	
	P	An article - The Brief January '96, The Brief's Guest Columnists, Williams Tool Co., Inc., Communicating December 13, 1995 (Fort Smith, Arkansas) The When? and Why? of Rotating Control Head Usage, Copyright © Murphy Publishing, Inc. 1996 (2 pages)	
	Q	A reprint from the October 9, 1995 edition of Oil & Gas Journal, "Rotating control head applications increasing", by Adam T. Bourgoine, Jr., Copyright 1995 by PennWell Publishing Company (4 pages)	
	R	1966-1967 Composite Catalog-Grant Rotating Drilling Head for Air, Gas or Mud Drilling, (1 page)	
	S	1976-1977 Composite Catalog Grant Oil Tool Company Rotating Drilling Head Models 7068, 7368, 8068 (Patented), Equally Effective with Air, Gas, or Mud Circulation Media (3 pages)	

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
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	T	A Subsea Rotating Control Head for Riserless Drilling Applications; Darryl A. Bourgoyne, Adam T. Bourgoyne, and Don Hannegan - 1998 International Association of Drilling Contractors International Deep Water Well Control Conference held in Houston, Texas, August 26-27, 1998, 14 pages.		T ₁
	U	Hannegan, "Applications Widening for Rotating Control Heads," Drilling Contractor, cover page, table of contents and pages 17 and 19, Drilling Contractor Publications Inc., Houston, Texas, July 1996.		
	V	Composite Catalog, Hughes Offshore 1986-87 Subsea Systems and Equipment, Hughes Drilling Equipment Composite Catalog, two cover sheets and pages 2988-3004.		
	W	Williams Tool Co., Inc., Technical Specifications Model for The Model 7100, 3 pages.		
	X	Williams Tool Co., Inc. Website, Underbalanced Drilling (UBD), The Attraction of UBD 2 pages.		
	Y	Williams Tool Co., Inc. Website, "Applications, Where Using a Williams Rotating Control Head While Drilling is a Plus," 2 pages.		
	Z1	Williams Tool Co., Inc. Website, "Model 7100," 3 pages.		
	Z2	Composite Catalog, Hughes Offshore 1982/1983, Regan Products, © Copyright 1982, Two cover sheets and 4308-27 thru 4308-43, and end sheet		
	Z3	Coflexip Brochure; 1-Coflexip Sales Offices, 2-The Flexible Steel Pipe for Drilling and Service Applications, 3-New 5" I.D. General Drilling Flexible, 4-Applications, and 5-Illustration, 5 unnumbered pages.		
	AA	Baker, Ron, "A Primer of Oilwell Drilling", Fourth Edition, Published by Petroleum Extension Service, The University of Texas at Austin, Austin, Texas, in cooperation with International Association of Drilling Contractors Houston Texas © 1979, 3 cover pages and pages 42-49 re Circulation System.		
	BB	Brochure, Lock down Lubricator System, Dutch Enterprises Inc., "Safety with Savings," pages D-3 through D-18, See above U.S. Patent No. 4,836,289 referred to therein.		
	CC	Hydril GL series Annular Blowout Preventers (Patented - see Roche patents above), 2pages, (© 1998)		
	DD	Other Hydril Product Information (The GH Gas Handler Series Product is Listed), © 1996, Hydril Company, pages D-29 through D-47.		
	EE	Brochure, Shaffer Type 79 Rotating Blowout Preventer, NL Rig Equipment/NL Industries, Inc., pages D-49 thru D-54.		
	FF	Shaffer, A Varco Company, Cover page and pages 1562-1568.		
	GG	Avoiding Explosive Unloading of Gas in a Deep Water Riser When SOBM is in Use; Colin P. Leach & Joseph R. Roche; (The Paper Describes an Application for the Hydril Gas Handler, The Hydril GH 211-2000 Gas Handler is Depicted in Figure 1 of the Paper), 9 unnumbered pages, (Undated)		
	HH	Feasibility Study of Dual Density Mud System for Deepwater Drilling Operations; Clovis A. Lopes & A.T. Bourgoyne Jr.; Offshore Technology Conference Paper Number 8465, pages 257-266, (© 1997)		

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				First Named Inventor	Don M. Hannegan
				Group Art Unit	
				Examiner Name	
Sheet	9	of	11	Attorney Docket Number	H055010.0050US0

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Exr Initials		Include Name of first Author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), volume-issue number(s), page(s), date (in parentheses). If a book, also include publisher and city and/or county where published.			T ₁
	II	April 1998 Offshore Drilling with Light Weight Fluids Joint Industry Project Presentation, pages C-3 thru C-11.			
	JJ	Nakagawa, Edson Y., Santos, Helio and Cunha, J.C., "Application of Aerated-Fluid Drilling in Deepwater", SPE/IADC 52787 Presented by Don Hannegan, P.E., SPE ©1999 SPE/IADC Drilling Conference, Amsterdam, Holland, 5 unnumbered pages, (March 9-11, 1999)			
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	MM	"Field Exposure (As of August 1998)", Shaffer® A Varco Company, 1 unnumbered page.			
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	OO	"JIP's Work Brightens Outlook for UBD in Deep Waters" by Edson Yoshihito Nakagawa Helio Santos and Jose Carlos Cunha American Oil & Gas Reporter, pp. 52-53 56, 58-60, and 62-63, (April 1999)			
	PP	"Seal-Tech 1500 PSI Rotating Blowout Preventer", 3 unnumbered pages, (Undated)			
	QQ	"RPM System 3000™ Rotating Blowout Preventer, Setting a new standard in Well Control", by Techcorp Industries, 4 unnumbered pages, (Undated)			
	RR	"RiserCap™ Materials Presented at the 1999 LSU/MMS/IADC Well Control Workshop", by Williams Tool Company, Inc., pp. 1-14, (March 24-25, 1999)			
	SS	"The 1999 LSU/MMS Well Control Workshop: An overview," by JOHN ROGERS SMITH, World Oil, Cover page and pp. 4, 41-42, and 44-45, (June 1999)			
	TT	DAG OLUF NESSA, "Offshore underbalanced drilling system could revive field developments," World Oil, Vol. 218, No. 10, Color Copies of Cover Page and pp. 3, 83-84, 86, and 88, (October 1997)			
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	VV	PCT Search Report, International Application No. PCT/US99/06695, 4 pages, (Date of Completion May 27, 1999)			
	WW	PCT Search Report, International Application No. PCT/GB00/00731, 3 pages, (Date of Completion June 16, 2000)			
	XX	National Academy of Sciences—National Research Council, "Design of a Deep Ocean Drilling Ship", Cover Page and pp. 114-121, Undated but cited in above U.S. Patent No. 6,230,824B1			
	YY	"History and Development of a Rotating Blowout Preventer," by A. CRESS, CLAYTON W. WILLIAMS, RICK STONE, and MIKE TANGEDAHL, IADC/SPE 23931, 1992 IADC/SPE Drilling Conference, pp. 757-773, (February 1992).			
	ZZ	Helio Santos, Email message to Don Hannegan, et al., 1 page, (August 20, 2001)			
	ZZ 1	REHM, BILL, "Practical Underbalanced Drilling and Workover," PETROLEUM EXTENSION SERVICE, THE UNIVERSITY OF TEXAS AT AUSTIN CONTINUING & EXTENDED EDUCATION, Cover page, title page, copyright page, and pp. 6-6, 11-2, 11-3, G-9, and G-10, (2002)			
	AAA	WILLIAMS TOOL COMPANY INC., "RISERCAP™: Rotating Control Head System For Floating Drilling Rig Applications", 4 unnumbered pages, (©1999 Williams Tool Company, Inc.), see reference to above U.S. Patent No. 5,662,181			

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	BBB	ANTONIO C.V.M. LAGE, HELIO SANTOS and PAULO R.C. SILVA, <i>Drilling With Aerated Drilling Fluid From a Floating Unit Part 2: Drilling the Well</i> , SPE 71361, 11 pages, (©2001, Society of Petroleum Engineers Inc.)			
	CCC	HELIOSANTOS, FABIO ROSA, and CHRISTIAN LEUCHTENBERG, <i>Drilling with Aerated Fluid from a Floating Unit, Part 1: Planning, Equipment, Tests, and Rig Modifications</i> , SPE/IADC 67748, 8 pages, (©2001 SPE/IADC Drilling Conference)			
	DDD	E. Y. NAKAGAWA, H. SANTOS, J. C. CUNHA and S. SHAYEGI, <i>Planning of Deepwater Drilling Operations with Aerated Fluids</i> , SPE 54283, 7 pages, (©1999, Society of Petroleum Engineers Inc.)			
	EEE	E. Y. NAKAGAWA, H.M.R. SANTOS and J.C. CUNHA, <i>Implementing the Light-Weight Fluids Drilling Technology in Deepwater Scenarios</i> , 1999 LSU/MMS Well Control Workshop March 24-25, 1999, 12 pages, paper and powerpoint presentation, (1999)			
	FFF 1	Press Release: "Stewart & Stevenson Introduces First Dual Gradient Riser," Stewart & Stevenson, http://www.ssss.com/ssss/20000831.asp , 2 pages (8/31/2000)			
	GGG	WILLIAMS TOOL COMPANY INC., "Williams Tool Company Introduces the... Virtual Riser™," 4 unnumbered pages, (©1998 Williams Tool Company, Inc.)			
	HHH	"PETEX Publications." Petroleum Extension Service, University of Texas at Austin, 12 pages, (last modified December 6, 2002)			
	III	"BG in the Caspian region," SPE REVIEW, Issue 164, 3 unnumbered pages, (May, 2003)			
	JJJ	"Field Cases as of 3 March 2003," Impact Fluid Solutions, 6 pages, (3/3/2003.)			
	KKK	"Determine the Safe Application of Underbalanced Drilling Techniques in Marine Environments – Technical Proposal," Maurer Technology, Inc., Cover Page and pp. 2-13, (6/17/2002.)			
	LLL	COLBERT, JOHN W., "John W. Colbert, P.E. Vice President Engineering Biographical Data," Signa Engineering Corp., 2 unnumbered pages, (undated)			
	MMM	"Technical Training Courses," Parker Drilling Co., http://www.parkerdrilling.com/news/tech.html , 5 pages, (last visited, 9/5/2003)			
	NNN	"Drilling equipment: Improvements from data recording to slim hole," Drilling Contractor, pp. 30-32, (March/April 2000)			
	OOO	"Drilling conference promises to be informative," Drilling Contractor, p. 10, (January/February 2002)			
	PPP	"Underbalanced and Air Drilling," OGCI, Inc., http://www.ogci.com/course_info.asp?courseID=410 , 2 pages, (2003)			
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	SSS	MURPHY, ROSS D. and THOMPSON, PAUL B., "A drilling contractor's view of underbalanced drilling," World Oil Magazine, Vol. 223, No. 5, 9 pages, (May 2002)			
	TTT	"Weatherford UnderBalanced Services: General Underbalance Presentation to the DTI," 71 unnumbered pages, © 2002			
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	VVV	FORREST, NEIL; BAILEY, TOM; HANNEGAN, DON; "Subsea Equipment for Deep Water Drilling Using Dual Gradient Mud System," SPE/IADC 67707, pp.1-8, (© 2001, SPE/IADC Drilling Conference)			
	WWW	HANNEGAN, D.M.; BOURGOYNE JR., A.T.; "Deepwater Drilling with Lightweight Fluids - Essential Equipment Required," SPE/IADC 67708, pp. 1-6, (© 2001, SPE/IADC Drilling Conference)			
	XXX	HANNEGAN, DON M., "Underbalanced Operations Continue Offshore Movement," SPE 68491, pp. 1-3, (© 2001, Society of Petroleum Engineers, Inc.)			
	YYY	HANNEGAN, D. and DIVINE, R., "Underbalanced Drilling - Perceptions and Realities of Today's Technology in Offshore Applications," IADC/SPE 74448, pp.1-9, (© 2002, IADC/SPE Drilling Conference)			
	ZZZ	HANNEGAN, DON M. and WANZER, GLEN; "Well Control Considerations - Offshore Applications of Underbalanced Drilling Technology," SPE/IADC 79854, pp.1-14, (© 2003, SPE/IADC Drilling Conference)			
	AAAA	BYBEE, KAREN, "Offshore Applications of Underbalanced-Drilling Technology," Journal of Petroleum Technology, Cover Page and pp. 51-52, (January 2004)			
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	FFFF	BOYLE, JOHN; "Multi Purpose Intervention Vessel Presentation," M.O.S.T. Multi Operational Service Tankers, Weatherford International, January 2004, 43 pages, (© 2003)			
	GGGG	GB Search Report, International Application No. GB 0324939.8, 1 page (01/21/2004)			

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